

Ex.No : 12

Sql statement with exists,any,all

Questions

Find the courses which have taken by students

OUTPUTS

```
mysql> select * from course;
```

```
+-----+-----+-----+-----+-----+
| courseno | coursedesc | coursetype | semno | hallno | facno |
+-----+-----+-----+-----+-----+
| c1      | dbms      | c          | 2     | 3      | f1     |
| c2      | ds        | c          | 1     | 4      | f2     |
| c3      | networks  | c          | 3     | 5      | f3     |
+-----+-----+-----+-----+-----+
```

3 rows in set (0.00 sec)

```
mysql> select * from student;
```

```
+-----+-----+-----+-----+-----+-----+
| regno | name | gender | dob      | mobileno | city | courseno |
+-----+-----+-----+-----+-----+-----+
| 123 | bino | m      | 2022-09-08 | 1234567891 | chennai | c1      |
| 124 | ram  | m      | 2004-09-08 | 1231231231 | bangalore | c1      |
| 125 | nisha | f      | 2008-09-18 | 1131231231 | hyderabad | c2      |
| 191 | ganga | f      | 2002-02-22 | 1423123423 | cochin | c2      |
+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

```
mysql> select courseno from course where exists(select regno from student where
course.courseno=student.courseno);
```

```
+-----+
| courseno |
+-----+
```

```
+-----+
```

```
| c1 |
```

```
| c2 |
```

```
+-----+
```

2 rows in set (0.04 sec)

2. Find the Faculties to whom courses are assigned

```
mysql> select * from faculty;
```

```
+-----+-----+-----+-----+-----+-----+-----+
```

```
| facno | facname | gender | dob      | doj      | mobileno | deptno |
```

```
+-----+-----+-----+-----+-----+-----+-----+
```

```
| f1 | kavya | f | 2003-12-12 | 2022-06-07 | 1233214566 | d1 |
```

```
| f2 | kamu | m | 1997-08-07 | 2021-03-04 | 222345521 | d2 |
```

```
| f3 | murugan | m | 1998-07-07 | 2020-09-08 | 1223234445 | d1 |
```

```
| f4 | kannan | m | 2001-10-01 | 2022-06-07 | 1233214563 | d2 |
```

```
+-----+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

```
mysql> select * from course;
```

```
+-----+-----+-----+-----+-----+-----+
```

```
| courseno | coursedesc | coursetype | semno | hallno | facno |
```

```
+-----+-----+-----+-----+-----+-----+
```

```
| c1 | dbms | c | 2 | 3 | f1 |
```

```
| c2 | ds | c | 1 | 4 | f2 |
```

```
| c3 | networks | c | 3 | 5 | f3 |
```

```
+-----+-----+-----+-----+-----+-----+
```

3 rows in set (0.00 sec)

```
mysql> select facno from faculty where facno =any(select facno from course);
```

```
+-----+
```

```
| facno |
```

+-----+

| f1 |

| f3 |

| f2 |

+-----+

3 rows in set (0.10 sec)

3.Find the d1 dept employess whose salary is greater than all the d2 dept employees salaries

mysql> select * from faculty;

+-----+-----+-----+-----+-----+-----+-----+-----+

| facno | facname | gender | dob | doj | mobileno | deptno | salary |

+-----+-----+-----+-----+-----+-----+-----+-----+

| f1 | kavya | f | 2003-12-12 | 2022-06-07 | 9841278965 | d1 | 99000 |

| f2 | kamu | m | 1997-08-07 | 2021-03-04 | 9842732965 | d2 | 56789 |

| f3 | murugan | m | 1998-07-07 | 2020-09-08 | 8842732965 | d1 | 13000 |

| f4 | kannan | m | 2001-10-01 | 2012-09-09 | 7842732965 | d2 | 67000 |

+-----+-----+-----+-----+-----+-----+-----+-----+

4 rows in set (0.00 sec)

mysql> select facno from faculty where salary >all (select salary from faculty where deptno='d2');

+-----+

| facno |

+-----+

| f1 |

+-----+

1 row in set (0.00 sec)